

1. (Amended) A tissue biopsy and treatment apparatus for detecting and treating tumors, the apparatus comprising:

an elongated delivery device including a lumen, the elongated delivery device being maneuverable in tissue;

a sensor array deployable from the elongated delivery device, the sensor array including a plurality of resilient members each having a tissue piercing distal portion, at least one of the plurality of resilient members being positionable in the elongated delivery device in a compacted state and deployable with curvature into tissue from the elongated delivery device in a deployed state, at least one of the plurality of resilient members including an optical sensor configured to function as an emitter and a detector, the sensor array having a geometric configuration adapted to volumetrically sample tissue at a tissue site or identify tissue at a tissue site;

at least some of said resilient members being electrodes which can be coupled to an RF energy source for ablating tissue when electrical energy is supplied to the electrodes from the source; and

wherein the sensor array is configured to measure a spectral profile of at least one portion of the tissue site.

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14. (Amended) A tissue biopsy and treatment apparatus for detecting and treating tumors, the apparatus comprising:

an elongated delivery device including a lumen, the elongated delivery device being maneuverable in tissue;

a sensor array deployable from the elongated delivery device, the sensor array including a plurality of resilient members each having a tissue piercing distal portion, at least one of the plurality of resilient members being positionable in the elongated delivery device in a compacted state and deployable with curvature into tissue from the elongated delivery device in a deployed state, at least one of the plurality of resilient members including an optical sensor configured to function as an emitter and a detector, the sensor array having a geometric configuration adapted to volumetrically sample and measure a spectral profile of at least one portion of a

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tissue site to differentiate or identify tissue at the tissue site; and

at least some of said resilient members being electrodes which can be coupled to an RF energy source for ablating tissue when electrical energy is supplied to the electrodes from the source; and.

42. (Amended) A tissue biopsy and treatment apparatus for detecting and treating tumors, the apparatus comprising:

an elongated delivery device including a lumen, the elongated delivery device being maneuverable in tissue;

a sensor array deployable from the elongated delivery device, the sensor array including a plurality of resilient members each having a tissue piercing distal portion, at least one of the plurality of resilient members being positionable in the elongated delivery device in a compacted state and deployable with curvature into tissue from the elongated delivery device in a deployed state, at least one of the plurality of resilient members including a sensor, the sensor array having a geometric configuration adapted to volumetrically sample tissue at a tissue site or identify tissue at a tissue site;

at least some of said resilient members being electrodes which can be coupled to an RF energy source for ablating tissue when electrical energy is supplied to the electrodes from the source;

wherein the sensor includes a first sensor and a second sensor, the first and second sensors being configured to substantially simultaneously measure a first spectral profile at a first tissue site and a second spectral profile at a second tissue site; and

wherein at least one of the first or the second sensors is selected from the group consisting of an emitter, an electromagnetic emitter, an optical emitter, an acoustical emitter, a laser and an LED.